



PTO/SB/08A (08-03)

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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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**Complete if Known**

Application Number	10/526,584
Filing Date	March 3, 2005
First Named Inventor	Shyam S. Mohapatra
Art Unit	1632
Examiner Name	
Attorney Docket Number	USF-183XC1

Sheet 1 of 8

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number - Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/qjl/	U1	US-6,943,147	09-13-2005	Vesely	All
	U2	US-5,691,310	11-25-1997	Vesely	All
	U3	US-5,840,341	11-24-1998	Watts et al.	All
	U4	US-2006/0110359 A1	05-25-2006	Sanchez-Ramos et al.	All
	U5	US-2006/0014689 A1	01-19-2006	Vesely	All
	U6	US-2005/0272650 A1	12-08-2005	Mohapatra	All
	U7	US-2005/0209139 A1	09-22-2005	Vesely	All
	U8	US-2005/0014289 A1	01-20-2005	Parsons et al.	All
	U9	US-2005/0014287 A1	01-20-2005	Friese et al.	All
	U10	US-2004/0266673 A1	12-30-2004	Bakis et al.	All
	U11	US-2004/0224903 A1	11-11-2004	Berry et al.	All

**FOREIGN PATENT DOCUMENTS**

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/qjl/	F1	WO 2005/094420 A2	10-13-2005	Univ. of South Florida	All	
	F					
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/qjl/	U12	US-2004/0213782 A1	10-28-2004	Wax et al.	All
	U13	US-2004/0203081 A1	10-14-2004	James et al.	All
	U14	US-2004/0171550 A1	09-02-2004	Backstrom et al.	All
	U15	US-2004/0146549 A1	07-29-2004	Ben-Sasson et al.	All
	U16	US-2004/0138134 A1	07-15-2004	Golembo et al.	All
	U17	US-2004/0067889 A1	04-08-2004	Belenky et al.	All
	U18	US-2004/0002458 A1	01-01-2004	Seilhamer et al.	All
	U19	US-2003/0204063 A1	10-30-2003	Gravel et al.	All
	U20	US-2003/0147943 A1	08-07-2003	Luo et al.	All
	U21	US-2003/0073628 A1	04-17-2003	Shailubhai et al.	All
↓	U22	US-2003/0069186 A1	04-10-2003	Burnett et al.	All
	U23	US-2001/0027181 A1	10-04-2001	Kitakaze et al.	All

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				Group Art Unit	1632
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/qjl/	R1	ABBEY, S. and POTTER, L. "Lysophosphatidic acid inhibits C-type natriuretic peptide activation of guanylyl cyclase-B" <i>Endocrinology</i> , 2003, 144:240-246.		
	R2	ANGUS, R.M. <i>et al.</i> "Effect of inhaled atrial natriuretic peptide on methacholine induced bronchoconstriction in asthma" <i>Clin Exp Allergy</i> 1994, 24:784-788.		
	R3	ANGUS, R.M. <i>et al.</i> "Effect of inhaled atrial natriuretic peptide and a neutral endopeptidase inhibitor on histamine-induced bronchoconstriction" <i>Am. J. Respir. Crit. Care Med.</i> , 1995, 151:2003-2005.		
	R4	BLISS, D. <i>et al.</i> "Expression of the atrial natriuretic factor gene in small cell lung cancer tumors and tumor cell lines" <i>J Natl Can Inst</i> , 1990, 82:305-310.		
	R5	BOITEAU, R. <i>et al.</i> "Increase in atrial natriuretic factor (ANF) in acute severe asthma (ASA)" <i>Am Rev Res Dis.</i> , 1988, 137:A484.		
	R6	CHANEZ, P. <i>et al.</i> "Atrial natriuretic factor (ANF) is a potent bronchodilator in asthma" <i>J. Allergy Clin. Immunol.</i> , 1990, 86:321-324.		
	R7	CHEN, S. <i>et al.</i> "1,25 dihydroxyvitamin D amplifies type A natriuretic peptide receptor expression and activity in target cells" <i>J. Am. Soc. Nephrol.</i> , 2005, 16:329-339.		
	R8	DELPORTE, C. <i>et al.</i> "Discovery of a potent atrial natriuretic peptide antagonist for ANP <sub>A</sub> receptors in the human neuroblastoma NB-OK-1 cell line" <i>Eur. J. Pharmacol.</i> , 1992, 224(2-3):183-188.		
	R9	DREWETT, J.G. and GARBERS, D.L. "The family of guanylyl cyclase receptors and their ligands" <i>Endocrine Reviews</i> , 1994, 15(2):135-162.		
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	R11	ERNST, P. "Review article: the role of inflammation in the pathogenesis of gastric cancer" <i>Aliment Pharmacol Ther.</i> , 1999, 13(1):13-18.		
	R12	FONAROW, G.C. <i>et al.</i> "Combining natriuretic peptides and necrosis markers in determining prognosis in heart failure" <i>Rev. Cardiovasc. Med.</i> , 2003, 4(suppl 4):S20-S28.		
✓	R13	FUJISEKI, Y. <i>et al.</i> "Natriuretic peptide receptors, NPR-A and NPR-B, in cultured rabbit retinal pigment epithelium cells" <i>Jpn. J. Pharmacol.</i> , 1999, 79(3):359-368.		

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/qjl/	R14	FÜRST, R. <i>et al.</i> "Atrial natriuretic peptide induces mitogen-activated protein kinase phosphatase-1 in human endothelial cells via Rac1 and NAD(P)H oxidase/Nox2-activation" <i>Circ. Res.</i> , 2005, 96:43-53.	
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	R16	GREENBERG, B.D. <i>et al.</i> "Nucleotide sequence of the gene encoding human atrial natriuretic factor precursor" <i>Nature</i> , 1984, 312(5995):656-658.	
	R17	GRETEN, F.R. <i>et al.</i> "IKK $\beta$ links inflammation and tumorigenesis in a mouse model of colitis-associated cancer" <i>Cell</i> , 2004, 118:285-296.	
	R18	HAMET, P. and TREMBLAY, J. "Aspects physiologiques et physiopathologiques du facteur natriuretique auriculaire" <i>Nephrologie</i> , 1987, 8:7-12, abstract.	
	R19	HULKS, G. <i>et al.</i> "Effect of atrial natriuretic factor on bronchomotor tone in the normal human airway" <i>Clin Sci</i> 1990;79:51-55.	
	R20	HULKS, G. and THOMSON, N.C. "High dose inhaled atrial natriuretic peptide is a bronchodilator in asthmatic subjects" <i>Eur. Respir. J.</i> , 1994, 7:1593-1597.	
	R21	HULKS, G. and THOMSON, N.C. "Inhaled atrial natriuretic peptide and asthmatic airways" <i>Br. Med J</i> , 1992, 304:1156.	
	R22	ISHII, Y. <i>et al.</i> "Effects of atrial natriuretic peptide on Type II alveolar epithelial cells of the rat lung. Autoradiographic and morphometric studies" <i>J Anat.</i> , 1989, 166:85-95.	
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	R24	JIN, H. <i>et al.</i> "Novel analog of atrial natriuretic peptide selective for receptor-A produces increased diuresis and natriuresis in rats" <i>J. Clin. Invest.</i> , 1996, 98:969-976.	
	R25	KANWAL, S. <i>et al.</i> "Intracellular fragments of the natriuretic peptide receptor-C (NPR-C) attenuate dopamine efflux" <i>Endocrinology</i> , 1999, 140(3):1118-1124.	
✓	R26	KELLY, R. and STRUTHERS, A. "Are natriuretic peptides clinically useful as markers of heart failure?" <i>Ann. Clin. Biochem.</i> , 2001, 38:94-102.	

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/qjl/	R27	KHURANA, M.L. and PANDEY, K.N. "Receptor-mediated stimulatory effect of atrial natriuretic factor, brain natriuretic peptide, and C-type natriuretic peptide on testosterone production in purified mouse Leydig cells: Activation of cholesterol side-chain cleavage enzyme" <i>Endocrinology</i> , 1993, 133:2141-2149.	
	R28	KIEMER, A. and VOLLMAR, A. "Autocrine regulation of inducible nitric-oxide synthase in macrophages by atrial natriuretic peptide" <i>J Biol Chem</i> , 1998, 273:13444-13451.	
	R29	KIEMER, A. <i>et al.</i> "cGMP-mediated inhibition of TNF- $\alpha$ production by the atrial natriuretic peptide in murine macrophages" <i>J Immunol</i> , 2000, 165:175-181.	
	R30	KUMAR, R. <i>et al.</i> "Expression of guanylyl cyclase-A/atrial natriuretic peptide receptor blocks the activation of protein kinase C in vascular smooth muscle cells" <i>Hypertension</i> , 1997, 29(part 2):414-421.	
	R31	KUMAR, M. <i>et al.</i> "Intranasal IFN- $\gamma$ gene transfer protects BALB/c mice against respiratory syncytial virus infection" <i>Vaccine</i> 1999; 18:558-567.	
	R32	KUMAR, M <i>et al.</i> "Atrial natriuretic peptide gene transfer by means of intranasal administration attenuates airway reactivity in a mouse model of allergic sensitization" <i>J Allergy Clin Immunol.</i> , 2002, 110:879-882.	
	R33	KURIHARA, M. <i>et al.</i> "Lower number of atrial natriuretic peptide receptors in thymocytes and spleen cells of spontaneously hypertensive rats" <i>Biochem Biophys Res Commun</i> 1987, 149:1132-1140.	
	R34	LIANG, F. <i>et al.</i> "Sp1 dependence of natriuretic peptide receptor A gene transcription in rat aortic smooth muscle cells" <i>Endocrinology</i> , 1999, 140(4):1695-1701.	
	R35	LOUZIER, V. <i>et al.</i> "Adenovirus-mediated atrial natriuretic protein expression in the lung protects rats from hypoxia-induced pulmonary hypertension" <i>Hum Gene Ther</i> , 2001, 12:503-513.	
	R36	MAISEL, A.S. <i>et al.</i> "Cardiac natriuretic peptides: A proteomic window to cardiac function and clinical management" <i>Rev. Cardiovasc. Med.</i> , 2003, 4(suppl 4):S3-S12.	
	R37	MARTIN, J. <i>et al.</i> "Modulation by biologic response modifiers of hepatitis C virus antigen-Independent cytokine secretion in blood mononuclear cells" <i>Cytokine</i> , 1999, 11:267-273.	
	R38	MATANIĆ, D. <i>et al.</i> "Cytokines in patients with lung cancer" <i>Scand J Immunol</i> , 2003, 57:173-178.	
✓	R39	MATSUKAWA, N. <i>et al.</i> "The natriuretic peptide clearance receptor locally modulates the physiological effects of the natriuretic peptide system" <i>Proc. Natl. Acad. Sci. USA</i> , 1999, 96:7403-7408.	

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/qjl/	R40	MATSUSE, H. <i>et al.</i> "Recurrent respiratory syncytial virus infections in allergen-sensitized mice lead to persistent airway inflammation and hyperresponsiveness" <i>J Immunol</i> , 2000, 164:6583-6592.		
	R41	MOHAPATRA, S. <i>et al.</i> "Natriuretic peptides and genesis of asthma: An emerging paradigm?" <i>J Allergy Clin Immunol</i> , 2004, 114:520-526.		
	R42	MOTOHASHI, S. <i>et al.</i> "Preserved IFN- $\alpha$ production of circulating Va24 NKT cells in primary lung cancer patients" <i>Int J Cancer</i> , 2002, 102:159-165.		
	R43	MUELLER, C. and BUSER, P. "B-type natriuretic peptide (BNP): can it improve our management of patients with congestive heart failure?" <i>Swiss Med Wkly</i> , 2002, 132:618-622.		
	R44	NAKAGAWA, K. <i>et al.</i> "Plasma concentrations of atrial and brain natriuretic peptides in a case with hypertensive encephalopathy" <i>Neurol. Res.</i> , 2002, 24:627-630.		
	R45	NAZARIO, B. <i>et al.</i> "Atrial and brain natriuretic peptides stimulate the production and secretion of C-type natriuretic peptide from bovine aortic endothelial cells" <i>J. Clin. Invest.</i> , 1995, 95:1151-1157.		
	R46	NEEDLEMAN, P. and GREENWALD, J.E. "Atriopeptin: a cardiac hormone intimately involved in fluid, electrolyte, and blood-pressure homeostasis" <i>N Engl J Med</i> , 1986, 314:828-834.		
	R47	OHBAYASHI, H. <i>et al.</i> "Compared effects of natriuretic peptides on ovalbumin-induced asthmatic model" <i>Eur. J. Pharmac.</i> , 1998, 346:55-64.		
	R48	OHSAKI, Y. <i>et al.</i> "Human small cell lung cancer cell lines express functional atrial natriuretic peptide receptors" <i>Cancer Res</i> , 1993, 53:3165-3171.		
	R49	OHSAKI, Y. <i>et al.</i> "Human small cell lung cancer cells produce brain natriuretic peptide" <i>Oncology</i> , 1999, 56:155-159.		
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	R51	PANDEY, K.N. <i>et al.</i> "Natriuretic peptide receptor-A negatively regulates mitogen-activated protein kinase and proliferation of mesangial cells: Role of cGMP-dependent protein kinase" <i>Biochem. Biophys. Res. Commun.</i> , 2000, 271(2):374-379.		
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				Filing Date	March 3, 2005	
				First Named Inventor	Shyam S. Mohapatra	
				Group Art Unit	1632	
Examiner Name						
Attorney Docket Number	USF-183XC1					
Sheet	7	of	8			

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/qjl/	R53	PANDEY, K.N. <i>et al.</i> "Ligand-regulated internalization, trafficking, and down-regulation of guanylyl cyclase/atrial natriuretic peptide receptor-A in human embryonic kidney 293 cells" <i>J. Biol. Chem.</i> , 2002, 277(7):4618-4627.			
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	R55	PANDEY, K.N. "Dynamics of internalization and sequestration of guanylyl cyclase/atrial natriuretic peptide receptor-A" <i>Can. J. Physiol. Pharmacol.</i> , 2001, 79(8):631-639.			
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	R59	ROULEAU, N. <i>et al.</i> "Development of a Non-radioactive Homogenous HTS Platform to Measure the Activity of Guanylate Cyclase", Poster #P10144, Presented at 10 <sup>th</sup> Annual SBS Conference and Exhibition, Orlando, FL, September 11-15, 2004, PERKINELMER BIOSIGNAL Inc., Canada.			
	R60	ROY, K. <i>et al.</i> "Oral gene delivery with chitosan-DNA nanoparticles generates immunologic protection in a murine model of peanut allergy" <i>Nat Med</i> , 1999, 5:387-391.			
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	R62	SEIDMAN, C.E. <i>et al.</i> "The structure of rat preproatrial natriuretic factor as defined by a complementary DNA clone" <i>Science</i> , 1984, 225:324-326.			
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	R64	SEKIGUCHI, T. <i>et al.</i> "Molecular cloning of natriuretic peptide receptor A from bullfrog ( <i>Rana catesbeiana</i> ) brain and its functional expression" <i>Gene</i> , 2001, 273:251-257.			
✓	R65	SHARMA, G.D. <i>et al.</i> "Expression of atrial natriuretic peptide receptor-A antagonizes the mitogen-activated protein kinases (Erk2 and P38 <sup>MAPK</sup> ) in cultured human vascular smooth muscle cells" <i>Mol. Cell. Biochem.</i> , 2002, 233(1-2):pages 165-173.			

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/qjl/	R66	SHI, S-J. <i>et al.</i> "Natriuretic peptide receptor A mediates renal sodium excretory responses to blood volume expansion" <i>Am. J. Physiol. Renal Physiol.</i> , 2003, 285:F694-F702.	
	R67	SHIMIZU, K. <i>et al.</i> "Ectopic atrial natriuretic peptide production in small cell lung cancer with the syndrome of inappropriate antidiuretic hormone secretion" <i>Cancer</i> 1991, 68:2284-2288.	
	R68	SILBERBACH, M. and ROBERTS JR., C. "Natriuretic peptide signaling molecular and cellular pathways to growth regulation" <i>Cell Signal</i> , 2001, 13:221-231.	
	R69	SIMKINS, J. "Nesiritide (Natrecor®) for Decompensated CHF" in The University of Montana's School of Pharmacy and Allied Health Sciences Drug Information Service, April 2002, Vol. 6 No. 4.	
	R70	SUENOBUE, N. <i>et al.</i> "Natriuretic peptides and nitric oxide induce endothelial apoptosis via a cGMP-dependent mechanism" <i>Arterioscler Thromb Vasc Biol.</i> , 1999, 19:140-146.	
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	R73	VESELY, B.A. <i>et al.</i> "Four peptides decrease the number of human pancreatic adenocarcinoma cells" <i>Eur. J. Clin. Invest.</i> , 2003, 33:998-1005.	
	R74	VESELY, D.L. "Atrial natriuretic peptides in pathophysiological diseases" <i>Cardiovascular Res.</i> , 2001, 51:647-658.	
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		Filing Date	March 3, 2005		
		First Named Inventor	Shyam S. Mohapatra		
		Art Unit	1632		
Examiner Name					
Sheet	1	of	4	Attorney Docket Number	USF-183XC1

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/qjl/	U1	US-2002/0146821 A1	10-10-2002	Sanchez-Ramos et al.	All
/qjl/	U2	US-6,528,245 B2	03-04-2003	Sanchez-Ramos et al.	All
	U	US-			
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/qjl/	R1	CHEN, X. <i>et al.</i> "Human bone marrow stromal cell cultures" <i>J Neurosci Res</i> , 2002, 69:687-691.	
	R2	CHEN, X. <i>et al.</i> "Ischemic rat brain extracts induce human marrow stromal cell growth factor production" <i>Neuropathology</i> , 2002, 22:275-279.	
	R3	CHEN, J. <i>et al.</i> "Therapeutic benefit of intravenous administration of bone marrow stromal cells after cerebral ischemia in rats" <i>Stroke</i> , 2001, 32:1005-1011.	
	R4	CHEN, J. <i>et al.</i> "Therapeutic benefit of intracerebral transplantation of bone marrow stromal cells after cerebral ischemia in rats" <i>J. Neurological Sci.</i> , 2001, 189:49-57.	
	R5	CHOPP, M. <i>et al.</i> "Spinal cord injury in rat: treatment with bone marrow stromal cell transplantation" <i>Neuroreport</i> , 2000, 11:3001-3005.	
	R6	DOCZI, T.P. <i>et al.</i> "Atrial natriuretic peptide (ANP) attenuates brain oedema accompanying experimental subarachnoid haemorrhage" <i>Acta Neurochir (Wien)</i> , 1995, 132:87-91.	
	R7	JENSEN, K.T. <i>et al.</i> "A new, fast and reliable radioimmunoassay of brain natriuretic peptide in human plasma. Reference values in healthy subjects and in patients with different diseases" <i>Scand J Clin Lab Invest</i> , 1997, 57:529-540.	
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	R10	LI, Y. <i>et al.</i> "Intrastriatal transplantation of bone marrow nonhematopoietic cells improves functional recovery after stroke in adult mice" <i>Journal of Cerebral Blood Flow &amp; Metabolism</i> , 2000, 20:1311-1319.	
	R11	LI, Y. <i>et al.</i> "Human marrow stromal cell therapy for stroke in rat: Neurotrophins and functional recovery" <i>Neurology</i> , 2002, 59:514-523.	
	R12	LU, D. <i>et al.</i> "Adult bone marrow stromal cells administered intravenously to rats after traumatic brain injury migrate into brain and improve neurological outcome" <i>Neuroreport</i> , 2001, 12:559-563.	
▼	R13	MAHMOOD, A. <i>et al.</i> "Treatment of traumatic brain injury in female rats with intravenous administration of bone marrow stromal cells" <i>Neurosurgery</i> , 2001, 49:1196-1204.	

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/qjl/	R14	MAHMOOD, A. <i>et al.</i> "Intracranial bone marrow transplantation after traumatic brain injury improving functional outcome in adult rats" <i>Journal of Neurosurgery</i> , 2001, 94:589-595.	
	R15	MAHMOOD, A. <i>et al.</i> "Intracerebral transplantation of marrow stromal cells cultured with neurotrophic factors promotes functional recovery in adult rats subjected to traumatic brain injury" <i>J Neurotrauma</i> , 2002, 19:1609-1617.	
	R16	NAKAO, N. <i>et al.</i> "Effect of atrial natriuretic peptide on ischemic brain edema: Changes in brain water and electrolytes" <i>Neurosurgery</i> , 1990, 27:39-44.	
	R17	NARUSE, S. <i>et al.</i> "Effects of atrial natriuretic peptide on brain oedema: The change of water, sodium, and potassium contents in the brain" <i>Acta Neurochir Suppl (Wien)</i> , 1990, 51:118-121.	
	R18	NOCERA, R. <i>et al.</i> "Novel strategies of neuroprotection against pathologic consequences of stroke in the aged brain" <i>Society for Neurosci. Abstracts</i> , 2001, 27(2):2302, Meeting date November 10-15, 2001.	
	R19	OGAWA, Y. <i>et al.</i> "Molecular cloning of the complementary DNA and gene that encode mouse brain natriuretic peptide and generation of transgenic mice that overexpress the brain natriuretic peptide gene" <i>J. Clin. Invest.</i> , 1994, 93(5):1911-1921.	
	R20	PORTER, J.G. <i>et al.</i> "Cloning of a cDNA encoding porcine brain natriuretic peptide" <i>J. Biol. Chem.</i> , 1989, 264(12):6689-6692.	
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	R22	ROY, R.N. and FLYNN, T.G. "Organization of the gene for iso-rANP, a rat B-type natriuretic peptide" <i>Biochem. Biophys. Res. Commun.</i> , 1990, 171(1):416-423.	
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✓	R26	SONG, S. <i>et al.</i> "Expression of brain natriuretic peptide by human bone marrow stromal cells" <i>Society for Neurosci. Abstracts</i> , 2002, Abstract No. 824.3, Meeting date November 2-7, 2002.	

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/qjl/	R27	SONG, S. and SANCHEZ-RAMOS, J. "Preparation of Neural Progenitors from Bone Marrow and Umbilical Cord Blood" in Protocols for Neural Stem Cell Methods, Zigova, T. <i>et al.</i> , Eds., 2002, pp.79-88.	
	R28	SONG, S. <i>et al.</i> "Expression of brain natriuretic peptide by human bone marrow stromal cells" <i>Experimental Neurology</i> , 2004, 185:191-197.	
	R29	STEINHELPER, M.E. "Structure, expression, and genomic mapping of the mouse natriuretic peptide type-B gene" <i>Circ. Res.</i> , 1993, 72(5):984-992.	
	R30	SUDOH, T. <i>et al.</i> "Brain natriuretic peptide-32: N-terminal six amino acid extended form of brain natriuretic peptide identified in porcine brain" <i>Biochem Biophys Res Commun</i> , 1988, 155:726-732.	
	R31	VLASUK, G.P. <i>et al.</i> "Structure and analysis of the bovine atrial natriuretic peptide precursor gene" <i>Biochem. Biophys. Res. Commun.</i> , 1986, 136(1):396-403.	
↓	R32	ZIVIN, R.A. <i>et al.</i> "Molecular cloning and characterization of DNA sequences encoding rat and human atrial natriuretic factors" <i>Proc. Natl. Acad. Sci. USA</i> , 1984, 81(20):6325-6329.	
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Examiner Signature	/Q. Janice Li/ (07/10/2007)	Date Considered	
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